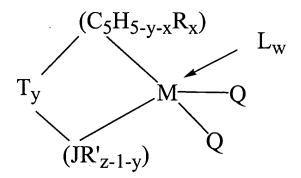
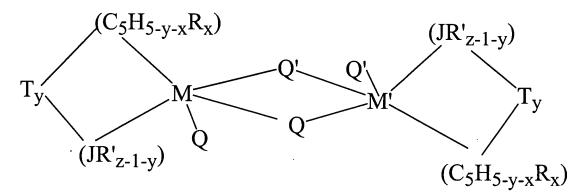
## IN THE CLAIMS

- 1.-4. (canceled)
- 5. (previously presented) A compound having the general formula



or



wherein M is Zr or Hf;

M' has the same meaning as M;

 $(C_5H_{5-y-x}R_x)$  is a cyclopentadienyl ring which is substituted with from zero to five substituent groups R, x is 0, 1, 2, 3, 4 or 5 denoting the degree of substitution, and each substituent group R is, independently, a radical selected from the group

consisting of  $C_1$ - $C_{20}$  hydrocarbyl radicals, substituted  $C_1$ - $C_{20}$  hydrocarbyl radicals wherein one or more hydrogen atoms is replaced by a halogen atom,  $C_1$ - $C_{20}$  hydrocarbyl-substituted metalloid radicals wherein the metalloid is selected from the group IV A of the Periodic Table of Elements, and halogen radicals, or  $(C_5H_{5-y-x}R_x)$  is a cyclopentadienyl ring in which two adjacent R substituents are joined forming a  $C_4$ - $C_{20}$  ring to give a saturated or unsaturated polycyclic cyclopentadienyl ligand;

 $(JR'_{z-1-y})$  is a heteroatom ligand in which J is an element with a coordination number of three from group V-A or an element with a coordination number of two from Group VI-A of the Periodic Table of Elements, and each R' is a radical selected from the group consisting of  $C_1$ - $C_{20}$  hydrocarbyl radicals, substituted  $C_1$ - $C_{20}$  hydrocarbyl radicals where one or more hydrogen atoms is replaced by a halogen radical, and z is the coordination number of the element J;

each Q is, independently, a univalent anionic ligand or two Q's together are a divalent anionic chelating ligand, provided that Q is not a substituted or unsubstituted cyclopentadienyl ring;

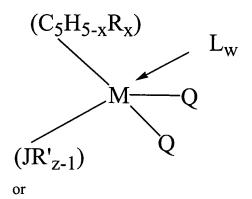
Q' has the same meaning as Q;

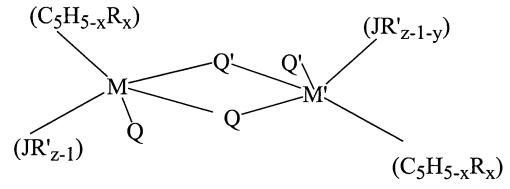
y is 1 when w is greater than 0; T is a covalent bridging group containing a Group IV-A or V-A element; and

L is a neutral Lewis base where w denotes the number 0 or 1, and when w is 0 y is 1.

6.-26. (canceled)

## 27. (previously presented) A compound having the general formula:





wherein M is Zr, Hf or Ti;

 $(C_5H_{5-y-x}R_x)$  is a cyclopentadienyl ring which is substituted with from zero to five substituent groups "R", "x" is 0, 1, 2, 3, 4 or 5 denoting the degree of substitution, and each substituent group "R" is, independently, a radical selected from the group consisting of  $C_1$ - $C_{20}$  hydrocarbyl radicals, substituted  $C_1$ - $C_{20}$  hydrocarbyl radicals wherein one or more hydrogen atoms is replaced by a halogen atom,  $C_1$ - $C_{20}$  hydrocarbyl-substituted metalloid radicals wherein the metalloid is selected from the group IV A of the Periodic Table of Elements, and halogen radicals, or  $(C_5H_{5-x}R_x)$  is a cyclopentadienyl ring in which two adjacent "R" groups are joined forming a  $C_4$ - $C_{20}$  ring to give a saturated or unsaturated polycyclic cyclopentadienyl ligand;

(JR'<sub>z-1</sub>) is a heteroatom ligand in which J is an element with a coordination number of three from Group V-A or an element with a coordination number of two from Group VI-A of the Periodic Table of Elements, each "R" is, independently, a radical selected from a group consisting of  $C_1$ - $C_{20}$  hydrocarbyl radicals, substituted  $C_1$ - $C_{20}$  hydrocarbyl radicals where one or more hydrogen atoms is replaced by a halogen radical, and z is the coordination number of the element "J";

each "Q" is, independently, a univalent anionic ligand or two "Q"'s together are a divalent anionic chelating ligand, provided that "Q" is different from  $(C_5H_{5-y-x}R_x)$ ;

"L" is a neutral Lewis base where "w" is a number greater than 0 and up to 3; "M" has the same meaning as "M";

"Q" has the same meaning as" Q".

28.-40. (canceled)

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41. (previously presented) Dimethylsilyl(tetramethylcyclopentadienyl)(tert-butylamido)zirconiumdichloride.

42.-43. (canceled)

- 44. (currently amended) The compound of any of claims 35, 36, 5 or 37-27 wherein each Q is independently selected from the group consisting of halogen, hydride or  $C_1$ - $C_{20}$  hydrocarbyl.
- 45. (currently amended) The compound of claims 44-5 or 27- wherein each Q is independently selected from the group consisting of hydride, methyl, ethyl,

propyl, butyl, amyl, hexyl, heptyl, octyl, nonyl, decyl, cetyl, phenyl, chloro, bromo, fluoro, and iodo.

- 46. (new) The compound of claim 5 wherein M is Zr.
- 47. (new) The compound of claim 5 wherein M is Hf.